

Appl. No. 09/437,590  
Amtd. Dated 03/07/05  
Preliminary Amendment

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-76. (Cancelled).

77. (Previously Presented) A copy management method for controlling storage and reproduction of digital content comprising:

receiving a digital bitstream including program data, the program data including system information and the digital content in a scrambled format;

descrambling the digital content in the scrambled format to provide a first output including the digital content in a descrambled format;

concurrently outputting the first output including the digital content in the descrambled format for display and a second output including the digital content in the scrambled format along with at least one access requirement for storage;

retrieving the stored digital content and the stored access requirement; and descrambling the stored digital content using the stored access requirement.

78. (Currently Amended) A copy management method for controlling storage and reproduction of digital content comprising:

receiving a digital bitstream including program data, the program data including system information and the digital content in a scrambled format;

descrambling the digital content in the scrambled format to provide a first output including the digital content in a descrambled format;

encoding a second output with at least one copy management command; and

concurrently outputting the first output including the digital content in the descrambled format for display and the second output including the digital content in the scrambled format for storage.

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79. (Previously Presented) The copy management method of claim 78, wherein the at least one copy management command indicates that program data forming the second output is "copy free".

80. (Previously Presented) The copy management method of claim 78, wherein the receiving of the digital bitstream comprising:

tuning a tuner to a frequency to receive the digital bitstream;  
demodulating the digital bitstream; and  
routing the program data of the digital bitstream to a conditional access unit upon determination that the program data includes the digital content in the scrambled format.

81. (Previously Presented) The copy management method of claim 78, wherein the outputting of the first output and the second output is performed simultaneously.

82. (Previously Presented) The copy management method of claim 78, wherein the digital content is content in a digital television transmission.

83. (Previously Presented) The copy management method of claim 78, wherein the receiving of the digital bitstream comprising:

tuning a tuner to a frequency to receive the digital bitstream;  
demodulating the digital bitstream; and  
routing the program data of the digital bitstream to a conditional access unit upon determination that the program data includes the digital content in the scrambled format.

84. (Previously Presented) A copy management method for controlling storage and reproduction of digital content comprising:

receiving a digital bitstream including program data, the program data including system information and the digital content in a scrambled format;  
descrambling the digital content in the scrambled format to provide a first output including the digital content in a descrambled format, comprising

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recovering a packet identifier (PID) from the program data, the PID indicating where an entitlement control message (ECM) may be found in the program data, and transmitting the PID to a conditional access unit;  
receiving a digital bitstream including program data including system information and the digital content in a scrambled format, the receiving of the digital bitstream comprises  
tuning a tuner to a frequency to receive the digital bitstream,  
demodulating the digital bitstream, and  
routing the program data of the digital bitstream to the conditional access unit upon determination that the program data includes the digital content in the scrambled format;  
descrambling the digital content in the scrambled format to provide a first output including the digital content in a descrambled format; and  
concurrently outputting the first output including the digital content in the descrambled format for display and a second output including the digital content in the scrambled format for storage.

85. (Previously Presented) The copy management method of claim 84, wherein the recovering of the PID is performed by a demultiplexer unit in communication with a central processing unit (CPU) that transmits the PID to the conditional access unit.

86. (Previously Presented) A copy management method for controlling storage and reproduction of digital content comprising:  
receiving a digital bitstream including program data, the program data including system information and the digital content in a scrambled format  
descrambling of the digital content in the scrambled format comprising:  
extracting an entitlement control message (ECM) from the program data, the ECM being used to derive a key for descrambling the digital content in the scrambled format; and  
transmitting the ECM to a conditional access unit;

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receiving a digital bitstream including program data including system information and the digital content in a scrambled format, the receiving of the digital bitstream comprises

- turning a tuner to a frequency to receive the digital bitstream,
- demodulating the digital bitstream, and
- routing the program data of the digital bitstream to the conditional access unit upon determination that the program data includes the digital content in the scrambled format;
- descrambling the digital content in the scrambled format to provide a first output including the digital content in a descrambled format; and
- concurrently outputting the first output including the digital content in the descrambled format for display and a second output including the digital content in the scrambled format for storage.

87. (Previously Presented) A copy management apparatus for controlling the recording and reproduction of digital content comprising:

- a tuner to receive a digital bitstream including scrambled program data, the scrambled program data including the digital content in a scrambled format;
- a processor to select a frequency for the tuner for receiving the digital bitstream and to transmit a packet identifier (PID); and
- a conditional access unit to receive the PID from the processor, the PID identifying where an entitlement control message (ECM) is located in the program data and to derive a key using the PID for descrambling the digital content of the scrambled program data.

88. (Previously Presented) The copy management apparatus of claim 87 further comprising:

- a demodulator unit in communications with the tuner and the conditional access unit, the demodulator unit to demodulate the digital bitstream and to transmit the scrambled program data to the conditional access unit if the scrambled program data includes the digital content in the scrambled format.

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89. (Currently Amended) The copy management apparatus of claim 88 further comprising:

a demultiplexer unit in communications with the demodulator unit, the processor and the conditional access unit, the demultiplexer unit to receive the scrambled program data from one of the demodulator unit and the conditional access unit, to parse the scrambled program data for one or more packet identifiers (PIIDs), and to transfer the PIID of the one or more PIIDs to the processor.

90. (Previously Presented) The copy management apparatus of claim 89 further comprising:

a digital interface unit in communications with the conditional access unit, the digital interface unit to encode the program data for storage.

91. (Previously Presented) The copy management apparatus of claim 87 further comprising:

a digital interface unit in communications with the conditional access unit, the digital interface unit to encode the program data for storage.

92. (Previously Presented) The copy management apparatus of claim 90, wherein the tuner, the demodulator unit, the processor, the demultiplexer unit, and the digital interface unit reside in a single housing.

93. (Previously Presented) The copy management apparatus of claim 90, wherein the conditional access unit is an external NRSS conditional access module adapted to the single housing.

94. (Previously Presented) The copy management apparatus of claim 90, wherein the conditional access unit is a Personal Computer Memory Card International Association (PCMCIA) card adapted to the single housing.

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95. (Previously Presented) The copy management apparatus of claim 90, wherein the conditional access unit is a smart card adapted to the single housing.

96. (Cancelled).

97. (Previously Presented) The copy management apparatus of claim 102, wherein the storage means being an audio player/recorder.

98. (Previously Presented) The copy management apparatus of claim 102, wherein the storage means being an digital video cassette recorder (VCR).

99. (Previously Presented) The copy management apparatus of claim 102, wherein the storage means being a hard disk recording unit.

100. (Previously Presented) The copy management apparatus of claim 102, whrcin the means for recovering the control information includes recovering a packet identifier (PID) from the program data, the PID identifying where an entitlement control message (ECM) is located in the program data and to derive a key using the PID for descrambling the digital content in the first scrambled format.

101. (Cancelled).

102. (Previously Presented) A copy management apparatus for controlling recording and reproduction of digital content comprising:

means for receiving a digital bitstream including program data in a scrambled format, the program data comprises the digital content in a first scrambled format;

means for recovering control information from the program data;

means for demodulating the digital bitstream and to transmit the program data in the first scrambled format if the program data includes the digital content in the first scrambled format;

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means for descrambling the digital content in the first scrambled format upon receipt from the means for demodulating based on the control information for display and concurrently re-scrambling the digital content in a second scrambled format; and

means for encoding the program data that comprises the digital content in the second scrambled format prior to storage.

103. (New) The copy management apparatus of claim 89, whereas each of the one or more PIDs is associated with different access requirements for the digital content.

104. (New) The copy management apparatus of claim 87, wherein each of the one or more PID are associated with different location regions each having a different access requirement for the digital content.